thrive.

* It will be observed that the steers fed on the corn ensilage and meal ration gained an avorage of 33 lb, each more than those on the ration of hay, roots If the people of Quebee do not take it and meal, during the 20 weeks

† During the last month of the testing poriod, steers No. 3 and 4, on corn ensilage and meal, gained in weight profit for themselves. much faster than the others; and when the experiment was finished, they were in more attractive condition for handl ing and selling

1 The steers on hay, roots and meal cost 19.23 cents per head, per day, or nearly 191 cents, the cost of the steers fed on the corn ensilage and meal was farmer's output and multiply his pro-11.90 : or 184 cents against less than 12 fits. Five acres of corn made into conts per day; and the steers on the ensilage will keep fifteen cows in ensilage gained thirty three pounds each more in the same time.

This authentic experiment should be sufficient alone to convince the most been neglected, the man who says : sceptical of the advantages of the "The big farmer can keep stock and system.

Indian corn, he thus proceds :-- A corn ensilage, as to have on a small farmer buys, you may say, from his farm a largor profit that the man who fields the raw material he gives his grows hay and feeds it. animals. There is no plant that can be grown on farms in Canada to-day that will furnish these constituents,albuminoids, fat and carbo-hydrates, for the feeding of animals as cheaply as the corn plant.

In hay, oats, peas, barley and wheat, you can obtain the same constituents, but they cost so much higher that the man who feeds these things, gets a less profit than the man who feeds them from corn stalks. I will illustrate that statement : the major part of the out hay at all, but animals' food is carbo hydrates which pounds of straw (1). keep it warm in our cold climate; these are found most palatable and digestible in sugar, gum and starch profit, with or without roots or en-The corn stalk has the faculty of appropriating these from the air, when exposed to sunlight and grown in a field where the plants have room. While near Montreal, last autumn, I

saw fields of corn, where the men had cellent practice, especially where milk wantonly thrown away two and a half is aimed at. The hay ration when wantonly thrown away two and a half bushels of seed to the acre : perhaps thus prepared will replace a conside they were benevolently inclined towards Mr. Ewing, or other seedsmen

Where the corn stalk has not room enough, the green coloring matter is less active, and does not take in the carbon for the gum, starch and sugar. The corn stalk serves the farmer in proportion as he gives it a chance.

Perhaps one of the most important subjects treated was winter dairying, as this system would revolutionise the whole course of the farm operations, and give profit at a time when pro viously there had been nothing but output.

One other object of the feeding of ensilage has been overlooked, and it is this :- by feeding cows with ensilage it is possible to have winter dairying in our cold climate; and that means an income from our cows the whole year round; it means the possibility of feeding milking cows with not more than 6 lbs of meal per day In feeding eighteen cows in groups of three, I do not find any gain from feeding over 9 lbs. of meal per head per day; but I find farmers round Montreal, feeding twolve, fifteen and sixteen pounds per from good crops; good crops depend head per day, an extra cost of 8 cents mainly upon good cultivation, the use twolve, fifteen and sixteen pounds per per day, with no more milk returns. As soon as we feed over eight pounds of meal per day, we make the milk richer in color but no richer in constituents; thus you see with ensilage you the weather is quite favorable for the can get more value in product with less cost per day.

fed cattle knows, an animal " will go conditions for the growing and curing off his feed " occasionally, and will not of fine bacon, we could send to England possibility of a bacon trade in the North-West, which has the best climate for growing animals and curing meats. up, the people of Manitoba will, and will market the grain in the form of concentrated products and get the best

> In winter dairying, it is possible to raise little pigs during the winter, and these raised on skim milk and butter milk, can be marketed to advantage at 6 and 8 months old. No matter how you look at it, the growing of corn and the feeding of ensilage will onlarge a splendid condition, so far as fodder is needed, all the winter.

The small farmer, the man who has

make money, but I cannot," can so On the question of the cultivation of enlarge his output through feeding

The growth of corn and the making of ensilage, is capable of the best ser vice to the farmer; and overy farmer's prosperity is a measure of prosperity to every good citizen of the country Read catefully on feeding dry hay

only-Prof. Robertson : I never feed hay, if I can help it, without roots. I never do it at all if I can help it, but, if I do. I must have roots or some succulent food with the hay. I have the best results from ensilage alone, without hay at all, but with about five

Note by Mr. Barnard :--(1) On hay farms, hay may be fed with great silage, by preparing it in advance Wetting it so that it reabsorbs the proportion of water it contained as grass and softening it with hot water, at least 12 hours in advance, is an exrable proportion of the meat ration.

Clover and other crops for ensilage by Mr. Barnard-This was a very learned and intelligent discussion, on the fact that there are many other crops which can be ensiled to great advantage-that clover is much richer in nitrogen than corn, and even that the rough grass of a farm may thus be turned into palatable and nutritious forage by fermientation and subsequent total exclusion of the air.

To illustrate this Mr Barnard exhibited a sample of ensilage made from the tough Mount Royal grass which cattle refused to eat in the shape of hay but on which the ponies and cattle were thriving in its present condition. Read Mr. Barnard's admirable address carefully and you will not be long with out a silo. You will find it on page 48 of the pamphlet.

Causes of failure (by Prof. Robertson) too true. Let those wear the cap whom it will fit and ponder the consequence to themselves.

The success of farmers, which means for them good times, comes mainly of good seed, the exercise of good management and the prevalence of good weather.

In nine seasons out of ten in Canada. One more point: by winter dairying the intelligent farmer. The want of capital in the land, increasing the the intelligent farmer. The want of value of the land and increasing the knowledge about his own business and value of the land and increasing the nearest. The literal meaning of the word is swine, and in this climate, with the best the want of interest in the methods profits from working the land. These "Ruler of the land".

whereby he can improve his producthe present time,

Turn the farm into a manufactory, says the professor in another place.

In the development of agriculture, farmers should be discouraged from marketing primitivo products, which take from the soil large stores of the fortility. They should be oncouraged haustion of their soil. Farmers have an impression that there are much larger profits in manufacturing than in agristate of things exists, I would advise him to become a manufacturer himself and thus obtain his share of these larger profits. The primitive products such as hay, corn stalks, pease, barley and oats, can be manufactured into rehorses and manure.

Mr. McPherson, in his address, made the following encouraging if startling statement :--- I would like to give you statement :what I have produced in the last four years, on a small farm of 130 acros I greatest result, and that market which would give me the greatest profit. By experiments I found that the corn crop was the most profitable to grow, and that the animal products were the best to sell, because they gave the greatest amount of money from the least amount of capital and labor. In apply ing that principle, I started with twenv-five head of cautle on a 130 acre farm that was run out, that had not paid a profit of one per cent on forty dollars an acre for years past. By adopting the corn crop and burying my capital through concentrated food, making the animal pay for it, in four years I have changed the capacity of the field from being able to feed twenty-five cattle to feed one hundred and eighty head.

The grass product sold yearly then was six to eight hundred dollars per annum, and left no net profit. Last year, the 4th year, the inventory of value produced in the summer of 1891 was over four thousand five hundred dollars. I have not yet obtained the maximum I expect. I think it will take me three or four years longer, when I really believe by carrying on these operations in these lines through the corn crop and through the animal, I shall get a net return of fifteen dollars per acro after paying all expenses of capital and labor. What does that mean in regard to the value of the land? If you have land that will give you fifteen dollars per acre net profit, it makes the value of the land \$150 to \$200. Estimate in four years a change from forty dollars to one hundred dollars an acre, what does that mean on one hundred and thirty acres?sixty dollars an acre of increased value on capital account. Besides this, it means a change from the loss my farm was giving me four years ago, to a profit of about \$1,000 a year. I have not got the figures, but on the first of May I expect to show a dividend, a balance sheet of one thousand dollars from the one hundred and thirty acres.

What we want is to sow crops in rotation which will make the greatest use of the material that is in the soil, that will give us the greatest product production of good crops; the other to convert into cash, and will give us factors are well within the control of the opportunity of turning the most

are questions, gentlemen, which should of fine bacon, we could send to England tions, are perhaps among the main stir us up to enquiry, stir us up as much bacon as cheese. I see a large difficulties that afflict agriculture at into action, and put knowledge into practico.

For, it is not enough to come here and find out cortain points of knowledgo; it is not enough to read books and find out the the 'y of farming ; it is only enough when that knowledge is put into every day practice on our farms, and then we shall be able to change the vocation of farming from being unproproducts which will enable them to fitable to one of profit, and also in-realise larger incomes without the ex crease the capital-producing value of tho land

The pamphlet concludes with able and concise articles as to the construcculture. I think the farmer is right tion of a sile (with diagram), the in this impression; but instead of rational feeding of milch-cows with advising him to complain because this their rations and results obtained under various conditions, all tabulated so that he who runs may read.

Comparative value of various goods and grains and milk returns, showing the net profits realised, and a remarkablo statement from Sir John B. Lawes, fined and concentrated products, such of England, showing that his method as beef, butter, cheese, pork, mutton, of feeding, which was so successful, exactly corresponds with the ration theory of the ominent French scientist, Jules Crovat.

Let me add in conclusion, that the pamphlot is replote with useful and thoroughly practical information, and have in Ontario. I strove to find out it is a furmer's own fault, if he has that plant which would give us the reasonably good land, if he cannot make a success with putting his intelligence and physical powers into action and taking advantage of the knowledge so freely disseminated by means of such associations and the report of their proceedings. It will never do to ay farming cannot be made to pay, after such evidence. Rend, mark, learn and digest the advice given, then assiduously put it into practice and never doubt the fact that farming here will pay and generously too according to the amount of attention, judgment and labor applied.

GEORGE MOORE.

List and addresses of the members of the Council of Agriculture appointed by

order in Council approved by the Lieutenant-Governor on the 17th of November 1892.

The Honorable A. C. P. R. Landry, Senator, Beauport.

The Honorable John McIntosh, Agriculturist, (1) Waterville

The Honorable M. G Joly de Lotbinière, Agronome, Lotbinière.

The Honorable F. X. O. Methot, Legislative, Councillor St. Pierre les Becquets.

Le Rev. M. T. Montminy, Cure of St-Jeorges, Beauce.

Benjamin Beauchamp, M. P. P. St. Hermas Milton McDonald, M. P. P Acton Vale

Joseph Girard, M. P. P. St. Gédéon,

Joseph de la Broquerie Tache. Notary, Juebec

I J. A. Marsan, Professor of the School of griculture, L'Assomption.

Rebert Ness, Freeholder, Howick

Timothée Brodeur, Freeholder, St. Hugues. Charles D. Tylee, Freeholder, Ste Therèse e Blainville.

Henry S. Foster, Agriculturist, Knowlton. Le Rev. M. E. Dauth, Cure of St. Léonard, Dr. Wilfrid Grignon, Freeholder, Ste. Adèle. Basile Lamarre, Freeholder, Longueuil.

Le Rev. L O. Tremblay, Director of the School of Agriculture, Ste. Anne Lapocatière. A A. Ayer, E cporter of butter and cheese, fontreal.

Ora P. Patten, Freeholder and Agent, fontreal.

Andrew J. Dawes, Agriculturist, Lachine.